779 Cluster Authorization Basis Management Project

Project Correspondence

Subject: Review and Comment Record

Date: March 24, 1998

To: John Miller

From: Donna Busche

Phone: X2601

cc: Julia Hamrick

Shannon Walker-Lembke

Dave Satterwhite
Arlen Schade
Eric Schweinsberg
Kelly Trice

779 Project AR/File NSTR Project/File

References:

- 1. cc:Mail, Shannon Walker-Lembke to Donna Busche, Comments on Review Record, dated March 16, 1998
- 2. cc:Mail, Donna Busche to Shannon Walker-Lembke, RFFO Feedback on Comment #10, dated March 13, 1998.
- 3. cc:Mail, Shannon Walker-Lembke to Donna Busche, Re: Summary of RFFO Meeting, dated March 12, 1998.

The Review Comment Record documenting all comments received by RFFO during Cross Table on the 779 Cluster Decommissioning Safety Analysis is attached. K-H comments received on a DRAFT version of the comment record (Reference 1) have been incorporated.

The dispositions in the table, document the resolution of comments and changes to the 779 Cluster Decommissioning Safety Analysis, Rev 0, as agreed to during the Cross Table sessions held March 9th and March 10th. Technical direction provided by RFFO outside of the Cross Table meetings (Reference 3) have also been incorporated.

Comment 10 in the Review Comment Record is still OPEN pending feedback from RFFO (Reference 2).

If you have any questions, please give me a call.



				Review Comment Record		
Ę	Document Number	diji.		Arro Cross Table		
∟ا ب	NSTR-002-98	779 Clu	ster Decommis	779 Cluster Decommissioning Safety Analysis	Revision 0	—
	Reviewer	Section	Type	Comment/Question	Disposition	Status O = Open C = Closed
	RFFO	Арр А		The applicability statements in the Control Sci currently "turn-off" controls based on the safety analysis (i.e., specific MAR limits). RFFO does not concur with "turning-off" controls base on MAR limits.	Accept. Applicability statements will be revised to eliminate specific reference to the MAR limits. A new definition (OPERATIONALLY CLEAN) will be added to define when the project can turn off ventilation or suppression for a given SCA. Specific LCO 3.1, Ventilation Confinement: Will modify applicability section to new definition of OPERABLY CLEAN. Will include duct and FP areas in the scope of the LCO. AC 5.2.3.5 requirement will be moved up into the LCO. Will clarify that the requirement for filtration applies when the SCA is exhausting. LCO 3.2, Building Sprinkler System Will modify applicability section to new definition of OPERABLY CLEAN. Will include requirement that no waste packages may be staged or stored in SCA. Will include a requirement to preclude	D = Dispositioned C
	RFFO	Арр А	[RFFO is concerned with the use of fixatives in the 779 Closure Project. Specific concerns on the combustibility load increase and the application hazards to the worker (Master Lee Product)	Accept. A control on fixatives will be added to AC 5.6, Fire Protection.	U
	RFFO	Арр А	F	Ę	Accept. A new LCO will be added for the deluge system (SC-3). No change will be made to the safety analysis to specifically credit.	Ç

			Page 2	Status 0 = Open C = Closed	D = Dispositioned C	O	U	O	Ų
	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・			Disposition	Accept. Fire Department Response will be added to AC 5.6, Fire Protection. A CONDITION for flow alarms will be added to LCO 3.2, Building Sprinkler System, to correspond to SR 4.2.1.4. No	change will be made to the safety analysis. RFFO is developing RFFO's position on the policy issue. 779 will include a requirement for spacing between LLW wooden waste crates in AC 5.6, Fire Protection, and AC 5.3, Inventory	Accept. Section 6.7, Safety Analysis Assumptions, will be modified to include a direct link to the control set.	Accept. A new AC will be added to identify the following requirements in Industrial Safety and Health: Health and Safety Plan asbestos hazards beryllium hazards "unknown" chemical hazards lead hazards	Requirement will be added require general maintenance on the EGEN, instrument air,.
Review Comment Becord	RFFO Cross Table	から、から、大学の大学・中央のでは、「大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大	779 Cluster Decommissioning Safety Analysis	Comment/Question	The Fire Department and flow alarms provide a defense-in-depth function. Include in the Control Set.	RFFO is concerned with the storage of LLW wooden waste crates outside.	The control set currently requires limits to be established to maintain the assumptions of the accident analysis. The current information provided is insufficient.	Certain industrial hazards pose a risk to workers during the closure process. RFFO is specifically concerned with asbestos abatement, beryllium abatement, and unknown chemicals.	AC 5.9, Maintenance and Surveillance does not contain a requirement for maintenance and surveillance of SC-3 SSCs. Specific SSCs that should be incorporated into the Control Set were listed: • EGEN • instrument air • cAMs/SAAMs • size reduction tents (DESIGN FEATURE).
	. " - 1.0		ter Decommis	Type = Information Q = Question T = Technical	T	Policy	F	F	[
		Title	779 Clus	Section	App A	General	General	Арр А	Арр А
		Document Number	NSTR-002-98	Reviewer	RFFO	RFFO	RFFO	RFFO	RFFO
		Docum	NSTR	No.	HLI 4	HLI S	HE 6	H H	8 5 4

	Page 3	Status O = Open C = Closed	D = Dispositioned C		 0 	O	U	U
Revision		Disposition	Accept. AC 5.2 will split the two functional areas. There will be one AC on the function for the SCAs and one AC on the function for FP areas and duct.	Both ACs will clarify that differential pressure must be negative w.r.t. surrounding areas. Clarification will also be added that temporary or alternate means should rely on hardware (e.g., temporary monitors) as opposed to administrative methods (e.g., paper and smoke teats)	Section 2.4.1.4 will be clarified to identify the existing SSC description to be consistent with the description and results provided in the recent	Accept. The applicability statement in LCO will be revised to include the dock. AC 5.3 will identify LLW inventory controls for the dock. Editorial comment on pg 61, section 5.3.3.3 will	Accept. The list of alternate means for the 779 Building will be added. RFFO approval of the 779 BIO will constitute agreement on the acceptability of actions taken to meet the intent of the requirements mandated by DOE Order	NSTR-dmb-001 transmits requested information. The revised table will be inserted for the table in Rev 0. The description text will be modified if needed to clarify that the table is only for information purposes w.r.t. determining if additional analysis is required in accordance with SARAH.
Review Comment Record RFFO Cross Table	ssioning Safety Analysis	Comment/Question	The facility boundary definition for the ventilation system is confusing to RFFO.		Related discussion to HLI 9 came about in Cross Table on the description of the SSC in Section 2.	RFFO is concerned on the consistency from facility to facility w.r.t. dock controls.	RFFO would like to see the "approved alternate means" to be specified in AC 5.5 in advance of the exemption request to 5480.24 being finalized, reviewed, and approved.	Table 3-1 hazardous materials in building: Please provide actual quantities of chemicals. For expediency sake, if it is an estimate of trace, or several containers, approximated estimates are okay. I know the discussion says for the "no" chemicals, limited or trace quantities are expected.
	779 Cluster Decommissioning Safety	Type = Information Q = Question T = Technical	· - · · · · · · · · · · · · · · · · · ·		[L	[·	
	779 C	Section	Арр А		7	Арр А	Арр А	Table 3-1
	NSTR-002-98		RFFO	 - - -			RFFO	Jim Conti
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			Q = Question T = Technical			O = Open C = Closed
7	Jim Conti	Section 3	Ţ	As I discussed with Rill the SARAH motheristics		D = Dispositioned
					All AC will be added on Industrial Safety and Hygiene. No additional text will be added to identify or further describe hazards associated with chamicals.	O
				existed, RQs were used as a lower threshold. I know we said worker rad estimates were not		
				necessary, and the subsequent discussion talks to the IH program, but the limited information as to		- 1
				amounts is insufficient.		
			., -	Expect a comment that given the beryllium, asbestos, PCBs, and D&D hazards, that IH&S should be an AC		
3	Jim Conti	Section 3	F	Ashestos (frights) has a DO of 111, 4-11		
			•	ethanol 1000 lb is listed in SARALI as DO as	Asbestos will be added to Table 3.1.	၁
				TPQ	Two ethanols are listed in the SARAH. The	
					ethanol with a TPQ was listed (analysis	
					perspective) since the actual formula for ethanol is not listed in the DOP.	
4	Jim Conti	General	0		See response to HLI 9. No other changes required	
					to document.)
		****		Are you going to have to break open the chases to		
				get at the ducts?		

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No.	Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed
v v	Jim Conti	N/A	Ò	Rooms 127/142: The NSTRs state they are at a positive. 127 shows an exhaust path to FP-403. Is there any way to modify ducts/flow to get these areas to a negative when room decon and plenum remediation is done? What is the survey results from 127/142 (are they going to need decon?)	No scan data for FP-403 (i.e., no measurable quantities found). AC 5.2, Ventilation/Filtration Confinement, establishes requirement to determine when an area is required to be negative. Rooms may need to be decontaminated. Governed by AC 5.7, Radiation Protection.	D = Dispositioned C
> F		N/A	o	Plenum 403 doesn't have a holdup listed in the SA. It exhausts 782 and office spaces. I know the RBA (or whatever they call it) has shifted around in the past. What is the holdup of PL-403? What are the NDA results/survey results of the Pu levels in the Zone I and II deluge tanks?	See response to Comment #5.	O
~ 0	Jim Count	Y X	0	Where is the K-H position on use of temporary room/hallway DP gauges?	The KH position is that temporary gauges are adequate and the best choice to ensure the fexibility to focus or change monitoring from/to any area as needed to support activities.	O
			>	after coating with the fixative, and the activity involves cutting up the plenum with the acetylene torch, how are they going to prevent the torch cutting from setting the coating on fire?	AC 5.6, Fire Protection, includes a specific control of use of oxyacetylene. See specific element 5.6.3.2.	O .
2	Jim Conti	∀ Z	-	Shirley has a set of comments, I'm trying to get them to forward to you.	No response required.	U

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				Review Comment Record RFFO Cross Table		
<u>8</u>	Document Number	Title				
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No.	Reviewer	Section	Type			Page 6
9			I = Information Q = Question T = Technical	Comment/Question	Disposition	Status O = Open
0	Jim Conti	N/A	0	It is my understanding that changing airflow rate changes the as tested efficiency of the filters. The std has you test at system operating flow. We haven't done anything in the past because of the assumption that in accidents, the systems will continue to be run at operating flow. Jan Fretthold says that filters are run at 20% design, so he does feel they will change significantly. I just don't know how much throttling down will occur during D&D.	AB Support team spoke with Jan Fretthold. Does not appear to be an issue. Summary provided on March 10th to RFFO review team. Tickle request sent to K-H on March 13th to follow-up.	C = Closed D = Dispositioned O
=	Shirley Olinger	ES	L	Include in the ES the Risk Dominant Accident	Accent Will add a	
12	Shirley Olinger	General	-	da da	\ \vec{v} \vec{v} \ \vec{v} \ \vec{v} \ \vec{v} \ \vec{v} \ \vec{v} \ v	ပ
			•	es and Orker D	Arccept. Document (Sections 1 - 8, and Appendix A) will be issued as a BIO. A paragraph will be added to the introduction section to highlight that this document does not meet the full intent of the requirements and guidance specified in DOE-STD-3011-94. b. Accept. Will add a paragraph to the Executive Summary briefly describing overall vulnerabilities. Vulnerabilities will not be added to each bounding accident scenario.DOE-STD-3011-94 will be used as guidance.	и́ ъ́ °
<u> </u>				3	c. Accept. Will add a paragraph to Executive Summary to qualitatively discussing the	
					hazards and associated risks to the immediate worker based on the scope of the 779 Closure Project. Section 4.0, Safety Management	

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No.	Reviewer	Section	Type	Comment/Onection		
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13	Shirley Olinger	FS	F	Director 44	for workers as required by 29CFR1910.120.	
		3	-	Discuss the concept of using the applicability statements to get out of the LCOs as progress with DD&D in reducing the hazards in the Exec. Summary.	Accept. Will add a paragraph to the Executive Summary discussing the turning off of the control set requirements, as hazards are reduced (i.e., applicability statements).	O
14	Shirley Olinger	ES	F	May need to anolitatively add-		
				impacts from the significant hazards in 779.	Accept. See response to Comment #12.c. Section 4.0, Safety Management Programs establishes the 779 Closure Project's commitment to the Health and Safety Plan. The HASP establishes specific controls for workers as required by 29CFR1910.120.	U
15	Shirley Olinger	App A		Don't same with a TOB 6		
		v ddv		Don't agree with no TSR for: a. Flow Alarms, b. Plenum Deluge, c. Combustible Controls, d. Emergency Preparedness and e. Configuration Mgmt	 a. Flow Alarms will be added to LCO 3.2 The Surveillance Requirement to verify was included in the original transmittal (i.e., SR 4.2.1.4). b. A LCO will be added Plenum Deluge. OPERABILITY as defined in the EOE does not need to be included in the control set. A statement will be added to clarify that system upgrades are not required for the SC-3 system. c. Combustible Controls is included in AC 5.6, Fire Protection. This is a slightly different format from the 371 BIO due to the fact that Fire Protection has recently released Procedure 31.04, Controlling Introduction of Combustibles as part of the Site infrastructure Fire Protection Program. Recommend leaving the requirement to control combustibles in AC 	O

				Review Comment Record RFF0 Cross Table		
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No.	. Reviewer	Section	Type	Comment/Question	Disposition	Status 0 = Open C = Closed
					5.6 for ease of the user in grouping and managing their requirements. d. Accept. Will add an AC on Emergency Response.	D= Dispositioned
					e. Accept. Will add an AC on Configuration Management. The key program elements will be limited to those aspects of the program that the 779 Closure Project will be using. Much of the Configuration Management requirements address "paper." Program elements will be consistent with procedure requirements for decommissioning.	U
9	Shirley Olinger		(Discuss in Section 1.3 the USQs that were negative due to comp measures, what these are and how NSTR addresses them. How are the controls identified in the USQ discussion implemented in NSTR. Don't understand the last para. in section 1.3.	NSTR-dmb-003 transmitted USQDs that were negative with compensatory measures. The last paragraph summarizes those USQDs that were negative with compensatory measures. During the review of the database and the USQD files, the AB support team determined that those negative USQDs with compensatory measures were limited to a very small subset of activites. Those USQDs pertinent to the scope of the 779 Cluster Decommissioning Safety Analysis are summarized in Section 1.3. The last sentence of each USQD discussion typically describes HOW the 779 Cluster Safety Analysis disposition (i.e., addressed).	C
2	Shirley Olinger	r General	Policy	Concerned with allowing LLW outside the facility; policy decision.	Management meeting held March 11, 1998. Technical direction provided to a requirement that LLW be stored in metal storage boxes (unlimited) or in clumps of 5 collocated crates with an adequate spacing distance.	S

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Document Number	Tige			Revision	
NSTR-002-98	779 CI	uster Decommi	779 Cluster Decommissioning Safety Analysis	0	Page 9
	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed
·	General	[It is very unclear how we will be assured negative pressure throughout the DD&D activities	AC 5.2, Ventilation/Confinement Control, Key Program Elements, provides the requirements to identify areas requiring DP, the means to measure the DP, and a procedure to rebalance and manage threes. No change required to dominants	D = Dispositioned C
Shirley Olinger	General	· ·	Where is the control that addresses the criticality lessons learned from Hanford; to NDA each package prior to placing it into waste container.	The 779 Cluster Decommissioning Control Set is based on the safety analysis and selection criteria of DOE Order 5480.22: • LCO 3.3, Criticality Detection • AC 5.4, Criticality Accident Alarm System and Notification These controls provide control of hazards associated with the handling of fissionable material in this facility. The AB Support team reviewed the 1987 event at a criticality mass laboratory to determine if there was a similar concern at the 779Cluster. (Reference: Final Report, Recovery from Exceeding the Pu Limits in Waste Burial Containers at CML, D.L. Haggard, et.al., dated May 1987.) The report contained seven significant lessons learned. • The majority of the concerns and corrective actions addressed the waste handling and packing process. AC 5.3, Inventory Control and Material Management provides the requirements to preclude the occurrence of a similar hazard at the 779 Cluster (see key program elements, Section 5.3.2.	O

				Review Comment Record		
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<u> </u>	Document Number	Title				
NS	NSTR-002-98	779 CI	uster Decomm	779 Cluster Decommissioning Safety Analysis	Revision 0 Page 10	
No.	Reviewer	Section	Type I = Information Q = Question T = Technical	Comment/Question	Disposition Stat	Status O = Open C = Closed
	or · · ·				One finding addressed the strippable coating applied to fix contamination.) The current site approved fixative (i.e., Bartlett TLC) has a criticality evaluation governing it's use and application. The Master Lee product analyzed in the 779 Cluster Decommissioning Safety Analysis, has a criticality evaluation (DRAFT) which is currently in review.	D = Dispositioned
					The remainder of the lessons learned addressed the techniques used to determine the loading in a waste container. The 779 Cluster will use the site approved sampling and packaging requirements to ensure the waste generated meet appropriate storage and disposal criteria.	
20	Shirley Olinger	3, 4, and 5 App A	-	 a. Need a lot more work on the IH hazards (asbestos/beryllium) in Chapter 3.3, 4.5, 5, 6 and TSR AC. b. Due to asbestos, beryllium and PCB remediation work there should be an AC relating to the IH required controls, similar to the Radcon AC. 	a. The level of detail presented in chapters 3, 4, and 5 is consistent with the SARAH and applicable DOE Standards (i.e., 1027, 5502, 3011, and 3009). No changes required to document. b. See response to HLI 7.	U
21	Shirley Olinger	3 and 5	O	It is not clear whether perchloric acid was used in hoods or gloveboxes and if so why the issue of perchloric acid in ducts is not of concern.	The facility has been walking down the facility to test for perchlorates in response to the Site issue of perchloric acid in the ventilation system. To date no measurable quantities have been found. See response to HLI 7. No additional changes required to document.	U

				Review Comment Record		
				RFFO Cross Table		
Document Number	Number	置			Revision	
NSTR-002-98	12-98	779 Clu	ster Decomm	779 Cluster Decommissioning Safety Analysis		Page 11
	Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status O = Open C = Closed
	Shirley Olinger	3	T	Add the quantities on hand and location for each of the materials identified in Table 3-1. Do any of these chemicals have EPST values?	See response to Comment #1.	D = Dispositioned C
	Shirley Olinger	က	!	Clarify the term "solutions" implies actinide solutions vs fluids.	Accept. Clarification will be added to Section 3.	O
	Shirley Olinger	<i>r</i> 0	(Concerned about the "combustible and toxic" fixative being used. How does it react with other chemicals that may be in the GB, e.g., perchloric acid.	See response to HLI 7 and Comment #21 for perchloric acid concern. GBs have been cleaned-out of chemicals and excess equipment. Combustibility of Master Lee (analyzed fixative) will be provided at Cross Table. Current analysis is underway to evaluate the combustibility of the Bartlett TLC fixative. Chemical compatibility of fixative is controlled under AC 5.3, Inventory Control and Material Management (i.e., Site packaging requirements, segregation by IDC).	U
25 Shirl	Shirley Olinger	3	[Why wouldn't we restrict where size reduce vs storing combustibles and waste containers. Also segreagate where combustibles vs waste containers can be stored	AC 5.6, Fire Protection, requires that limits be established, implemented and maintained for combustible material storage and staging throughout the facility. Separate limits are required for size reduction and waste storage locations.	O

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<u> </u>			I = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open
- -	26 Shirley Olinger	App A	₽	Shouldn't we require the steps to be performed in	The purpose of Section 2 & 2 is to	C = Closed D = Dispositioned
				numbered sequence in section 3.5.3? For example, step 12 must happen before step 13.	activities are described along with their associated hazards. No additional discussion needs to be added. No control will mandate the second	O
					control. Management meeting provided technical direction to include a control on removal of	
3	/ Shiriey Olinger	4	L	What should the special controls he to preglinds the	defense-in-depth equipment.	
				Oakridge fatality during welding when we	AC 5.6, Fire Protection, and AC 5.7, Work Control, provide adequate controls on Letteral	ပ
				cayactyrene cut-up the plenums, etc.	(i.e., permit required) and work planning (i.e.,	
			_		nazards associated with the task are identified and integrated into work instructions via Activity.	
78	Shirley Olinger	3	L	The discussion at the 1 o	Hazards Analysis.)	
				Weak considering this is where the hand of	No changes required. The safety analysis	
		•		hazards will occur. The level of detail should be	adequately identifies and evaluates hazards associated with Activity 5)
29	Shirley Olinger	General		more man the other sections		,1
				200gms is dictated by the NSTR for onsite transportation and the MAL AA that identifies the controls	Accept. Will reference Site SAR and NSTR on transportation.	O
30	Shirley Olinger	9	F			
				in section 6	In addition to the linking tables and analysis summary tables, Section 6 will provide a	0
3	Shirley Olinger	9		Include the Radiological and Chemical Accident	description of each bounding accident scenario.	
			<u> </u>		consequence levels of chemicals will not be added. Chemicals required no further analysis in	Ü
32	Shirley Olinger	9	T	Need a discussion and reference to the	accordance with SARAH.	-
			2 69 1	2.3,	No chemical (other hazardous material) analysis was performed in accordance with the SARAH methodology and applications of the same and applications.	၁
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No.	. Reviewer	Section	Type		Lage	13
<u>-</u> .			i = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open
33	Shirley Olinger	9		Make it clear that CID info based on 50% vs 95% and how you are using this info.	Accept. Numbers will be taken out.	C = Closed D = Dispositioned C
. 34	Shirley Olinger	9		Discuss each of the risk dominant scenarios that are Risk Class I or II to MOI/CLW and discuss the controls that prevent/mitigate the risk.	See response to Comment #30.	O.
દ	Shirley Olinger	9	H	The LLW wooden waste crate fire at 5.7 rem to MOI should be noted as RC I vs 11?	Typo will be corrected. Text will be added to clarify between the 5 crate fire and the 100 crate	O
36	Shirley Olinger	9	H	Need to look at fires that activate sprinklers but also rely on fire dept response. See B371 B10, they list	fire. Accept. Fire Department response will be added to the 779 Cluster Decommissioning Control Set	O
	Krajewski			work in the Building 779 Cluster, it is inadequate for addressing hazards classified in the document as "standard industrial hazards." There is no safety management program for either industrial hygiene or occupational safety. Although the Safety Analysis refers to the Health and Safety Practices Manual, this manual is not current with the K-H contract and organizational structure. The SAR must be upgraded to include occupational safety and industrial hygiene as safety management programs	This document establishes the safety basis for the 779 Cluster Closure Process. It is ONE of the regulatory documents required to control work and hazards in the facility. The AA will need to specify the other key "licensing" documents driven by other regulations (i.e., DOP, HASP). Section 4.0, Safety Management Programs, Section 4.5, Hazardous Material Protection, identifies the program commitments to industrial hygiene and safety. Section 4.0, Safety Management Programs, Section 4.8.3, Industrial Safety, contains provisions to implement federal	O
38	Dr. Torma- Krajewski	£	F-	Section 3.3 does not provide a comprehensive list of potential problems associated with the tasks for this activity. For example, heat stress is a major problem associated with asbestos abatement, vet it	industrial hazards. Management meeting provided technical direction to add ONLY the hazards identify by the reviewer. A comprehensive listing is not required.	O

		Review Comment Record		to the second se
Or. Reviewer Section Type Commentation Safety Analysis O. Reviewer Section Type Comment/Question D. Torma- 3 T Table 3-1 in Section 3.3 provides very little information would include the actual amount of material; strajewski Strajewski Troma- 3 T Section 3.5 aloes not include the actual amount of material; strajewski Strajewski Troma- 3 T Section 3.3 aloes not include steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- 3 T Section 3.5 aloes not include steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- 3 T Section 3.5 aloes not include steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- General T Many sections of the SAR are weak in terms of identifying occupational safety and industrial hygiene hazards. For example:		RFFO Cross Table		
Neviewer Section Type Comment/Question 1 = Information Q = Cuestion T = Technical is not listed as a result of the activity. Also, since wet methods are used during abevatos abatement, electrical shock is always a potential hazard with this rask. Ye tit is also is not listed as a potential result of the activity of the actual amount of material; storage configuration; potential to be found in ventilation systems, piping and drains; occupational exposure limits, and the potential for exceeding the occupational exposure limits. Arajewski Dr. Torma- S T Section 3.3 does not lictude steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- S T Many sections of the SAR are weak in terms of identifying occupational safety and industrial hygiene hazards. For example:	110e			
CommentQuestion 1 = Information 0 = Question T = Technical 1 =	779 Cluster Decommissioning Safet		0	Page 14
is not listed as a result of the activity. Also, since wet methods are used during asbestos abatement, electrical shock is always a potential hazard with this task. Yet it also is not listed as a potential result of the activity. Table 3-1 in Section 3.3 provides very little information useful for determining potential employee exposures. More useful information would include include storage configuration; potential to be found in ventilation systems, piping and drains; occupational exposure limits; and the potential for exceeding the occupational exposure limit. Dr. Torma- Dr. Torma- 3		Comment/Question	Disposition	Status 0 = Open C = Closed
Krajewski 3 T Table 3-1 in Section 3.3 provides very little information useful for determining potential cmployce exposures. More useful information would include the actual amount of material; storage configuration; potential to be found in ventilation systems, piping and drains; occupational exposure limits; threshold limit values or permissible exposure limits; and the potential for exceeding the occupational exposure limit setting. Section 3.5.3 does not include steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- General T Many sections of the SAR are weak in terms of identifying occupational safety and industrial hygiene hazards. For example:		result of the activity. Also, since c used during asbestos abatement, is always a potential hazard with also is not listed as a potential result		D = Dispositioned
Pr. Torma- Arajewski Section 3.5.3 does not include steps for asbestos, lead, chromium and beryllium abatement and decontamination activities. Dr. Torma- Krajewski General T Many sections of the SAR are weak in terms of identifying occupational safety and industrial hygiene hazards. For example:	[tion 3.3 provides very little ful for determining potential ures. More useful information re actual amount of material; ation; potential to be found in ms, piping and drains; occupational (threshold limit values or source limits); and the potential for provided in the source limits.	See response to Comment #38.	S
Dr. Torma- General T Many sections of the SAR are weak in terms of identifying occupational safety and industrial hygiene hazards. For example:	F	es not include steps for asbestos, and beryllium abatement and activities.	Paragraph will be added to Section 3.1 to identify that asbestos and beryllium may be encountered in each activity.	ify C
nazardous material.	(-		Occupation Safety and Industrial Hygiene hazards are routinely screened from further analysis in nuclear safety analysis reports since their risks are bounded by other hazards. Worker safety from these hazards is managed through the Safety Management Program on Hazardous Material Protection, the Health and Safety Plan, etc. Section 5.2, Hazard Checklist, highlights that standard industrial hazards were only considered to the degree that they were a contributor or an initiator in an accident scenario for the uncontrolled release of radioactive or other	rds C d to

				Review Comment Record		
		. 54	:	RFFO Cross Table		
8	Document Number	Title			Revision	
NS	NSTR-002-98	779 CIL	ıster Decomm	779 Cluster Decommissioning Safety Analysis		Page 15
Š.	Reviewer	Section	Type = information Q = Question Type Type	Comment/Question	Disposition	Status O = Open
		E.	E -	Sections 3.5.3.10, 11 and 12 do not address the potential for hazardous materials, other than radioactive materials, being found in the ductwork, such as beryllium and perchloric	See response to Comment #40.	D = Dispositioned C
		r.	L	• Section 3.5.3.14.3 does not address the potential for employee exposures to the fixative coating when it is sprayed. Methylene bisphenyl isocyanate, or MDI, has an OSHA PEL of .02 ppm and is a respiratory sensitizer	See response to Comment #38.	O
		m	(address the potential for exposure to vibration, excessive force, repetitive motions and awkward postures during use of scarifiers, paving breakers, chipping hammers, cutting tools and concrete cutting saws. Also, high noise and not moderate noise would be	See reponse to Comment #38.	O
Ç	6	3	Ŧ	Section 3.5.3.14.10 does not address the potential for the generation of metal fumes during the oxyacetylene cutting process.	See response to Comment #38.	O
74	Dr. Torma- Krajewski	4	Į.	bilities	Section 4.31.1 does not distinguish between nuclear and non-nuclear safety when identifying responsibilities to responsible line management. "Safe operation" includes nuclear and other hazardous material. "In accordance with regulatory requirements" includes OSHA, EPA, Dept of Labor, etc	ng C

				Review Comment Record RFFO Cross Table			<u> </u>
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NST	NSTR-002-98	179 CI	uster Decomm	779 Cluster Decommissioning Safety Analysis	0	Page 16	
Z.	Reviewer	Section	Type I = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed	7
43	Dr. Torma- Krajewski	'n	-	Table 5.1 does not include several "standard industrial hazards" associated with the activities and tasks described in this document. Examples include heat stress, vibration, chromium contamination from kathene spills, and ergonomic risk factors (repetitive motion, high force, awkward posture, etc.)	See response to Comment #38.	D = Dispositioned	
44	Jim Conti	App A	[The concept of using MAR numbers as a threshold for applicability of LOC and Admin Controls is not accepted by RFFO. The logic used is that once below these thresholds, LCO controls are no longer required. However, just demonstrating 4.99, or .099 Rem does not demonstrate that these controls are still not appropriate to remain in place under important defense in depth, given the uncertainty of the sequence, D&D activities, and how these controls will be implemented. Separate proposals exist as to applicability of filtration and DP.	See response to HLI 1.	O	
45	Jim Conti	App A	H	The applicability statement for fire suppression should be revised to require removal of combustibles below a level approved by FP engineering - also for FP areas, the issue of FP holdup should be addressed by removal of plenum components, not gram amounts	See response to HLI 1.	S	
46	Jim Conti	App A	į-	um deluge as a service by a serability issues, m fire temperatures. Todology that only and directly credited vel controls, there portant defense in	See response to HLI 3.	O	

1.	M			Review Comment Record RFFO Cross Table			
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ž	NSTR-002-98	779 CIt	ıster Decomm	779 Cluster Decommissioning Safety Analysis	Revision		
Š	9. Reviewer	Contion	Tvas			Page 17	
		uonas	I ype I = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open	ns nec
·				depth controls as LCOs or ACs. The deluge system has been identified by the Site team as an important tool in mitigation of fires, such that a guidance		C = Closed D = Dispositioned	sed
47	Jim Conti	2		report was issued for fire fighting strategies. Page 11: support system designation lacks any	Soo managed and the state of th		
				specificity and misses some logical systems. Since defense in depth and support system are detailed in the safety analysis, it is hard to say that the analysis drives the programs.	See response to HLI 3 and HLI 8.	S	
				support systems and provide the agreed upon function.			
				Missing from the list: effluent monitoring, plenum deluge, emergency lighting instrument of			
			· Ver de ·	breathing air, emergency power (which should be			
				secured), local and office fire suppression/alarms, internal fire harriers.			
				The maintenance AC should say something about maintaining these goods.			 _
				Size reduction Tents: Since these happen to be		<u> </u>	
48	lim Cont.			durectly credited in the accident analysis, why are they not SC-1/2?			
2		7		Page 21 Fig 2-6: The provided ventilation study has note on the Pl403 line from 779 cold offices	The note in the ventilation study was in indication	ion	
				"unable to verify" Is this still an issue?	locate and verify the line. FP-403 has NO	<u>~</u>	····
49	Jim Conti	General	F	B779-B needs to have a PDIT installed as the base	HOLDUP. Not a safety issue. See response to H1.19		
S	Jim Conti	General	0	DP indicator for the area.		ن 	
		<u> </u>			AC 5.2, Section 5.2.2, Key Program Elements, specifies the requirement to determine when	O	Τ
		<u></u>			monitoring is required, provide the means to	—. — 	
					in airflow which may occur.	sets	

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			s pre = Information Q = Question E = Technical	Comment/Question	Disposition	Status 0=0pen
	Jim Conti	2		Page 25: The safety function of the sprinkler system is to work with fire barriers to extinguish fires. I thought the design of sprinkler coverage	Accept. Will clarify safety function of sprinkler system.	C = Closed D = Dispositioned C
52	Jim Conti		F	was such that they suppress fire growth to allow fire dept response to extinguish, hence the title fire suppression.		
	}	n		Table 3-2 page 41 states that the containers have an analyzed WG Pu equivalent limits. Is this really true that TRU containers will control levels to equivalent WG Put 15.	The accident analyses used WG Pu equivalent to account for the in-growth of Am. TRU containers will have to control to equivalent WG Pu limite	S
				are expressed in activity/weight. Does Americium have significantly different curie DCF such that this	No change required to document.	
53	Jim Conti	2	L	Page 51 step 17. These last control of		
				paragraph states that plenums supporting a specific area will not be removed until the gb, duct, and contamination are below safety analysis and RP thresholds. What are the paragraphs and RP	The is no hard and fast limit (i.e., below regulatory concern). Radiation Protection will be working with the project to calculate the threshold as appropriate at this stage in the decommissioning	U
y .	Jim Conti	4	0	Page 73 Where does the CCA fit in under the WATM in the line structure?	CCAs report directly to the WAT manager. Will be	
જ	Jim Conti	4	0	Page 74, CM Where is the requirement that facility procedures will be maintained current with facility	added to figure. See response to Comment #15.) 0
26	Jim Conti	4	0	ISM: Where does the facility HASP fit in and	The ISM section reflects the V 11	
1.5	- i			where is it mentioned?	HASP is just ONE of the many "licensing documents" for this facility and is identified in SMP on Activity Control. This is the primary INTEGRATING SMP for activities conducted in	v
		'n	○	Page 5.1 What is the holdup of PL-403 and of the process drain tanks for plenum deluge for Zone I/II drains? What are the plans for remediation of the	There is NO HOLD-UP in FP-403. See scan data.	J
1			8		be decontaminated to as low as achievable and left	

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<u>පි</u>	Document Number	Title				
ž	NSTR-002-98	779 CI _L	uster Decomm	779 Cluster Decommissioning Safety Analysis	Revision 0	Рапа 10
Š.	0. Reviewer	Section	Type			r age 19
			= Information Q = Question T = Technical	Comment/Question	Disposition	Status O = Open
				tank T-401 in 782?	in place	D = Dispositioned
	- -				Tank T-401 has no hold-up. Tank will be cut up	
<u>~</u>	o Jim Conti	5	L	Table 5-1 Where is the description for drum liners	and removed,	
				and plastic that will be staged prior to use?	in a sense a snap shot in time. At the time of the	ပ
					facility. The project intends to stage drum liners	
					outside the facility (i.e., away from MAR). Liners	
					required to document. AC will provide adequate	
59	Jim Conti	5	Ŀ	Table 5-1 natural gas is confusing line in 11.	controls	
				but also blanked off, but there is a residue unknown	Will verify and clarify text as needed.	0
·		-		if purged. This is not carried forward anywhere in		
				the document. I thought all natural gas lines are		
ક	Jim Conti	5		olanked off at the building.		
		,		Inatural phenomena discussion: The CID numbers	See response to Comment #33	C
				presented there and due to low coloring at a risk is		
				no further discussion is needed. Should the evicting		
			4 1	seismic capability be addressed as a passive feature		
19	Jim Conti			not to be degraded until the building is dropped?		
)		at	Zone II will be running when Zone I is cutoff.	
			7	Zone II plenums be minning?	I his will make the rooms negative, but not	· · · · · · · · · · · · · · · · · · ·
C	lim Conti				necessarily the plenums. Paragraph will be added	
3		<u> </u>	<u></u>	\dagger	See response to Comment #15	ļ
			-			ပ
				going to remain under the downwind plume. This is		
	•		Ē	be credited and mould be control that can almost		
				in depth control Renacially with the		
				responding with the uncertainty		

				Review Comment Record		
				RFFO Cross Table		
8	Document Number	Tille			Revision	
SZ	NSTR-002-98	779 CIL	ıster Decomm	779 Cluster Decommissioning Safety Analysis		Page 20
o N	Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed
				associated with building activities, a strong EP is needed.		D = Dispositioned
63		Арр А	-	The fire protection and ventilation system AC both contain general statements that controls will be implemented that maintain safety analysis assumptions. This is not specific enough. The specific credited assumptions must be listed. The ones I can figure out are component/combustible spacing such that only one package will go up, ventilation dilution such that deluge is not required, and combustible control such that internal/external fire barrier deficiencies and sprinkler deficiencies are compensated. It is not appropriate to list a control that says to go seek out and maintain SA assumptions, otherwise I'd write the LCOs that way too.	Section 6.7 itemizes all accident analysis assumptions. Linkage will be made in Section 6.7 to the appropriate control.	O
2	Jim Conti	App A	—	As I understand the integrated controls, we are supposed to maintain a ventilation dilution control, fire suppression, and combustible controls such that any one fire will not breach the HEPA filters. Deluge is thus not required, and not credited. It is unclear to what extent that it will be feasible to integrate fire accident models, spacing/combustible controls/ and ventilation airflow balances such that this assumption can be maintained. Either all of these analyses have to presented prior to approval, or the controls have to be revised.	See response to Comment #15 and HLJ 3. Originally proposed control of ventilation flow will be deleted.	U
62	Jim Conti	АррА		TSRs: definition of ACs: the last set of definitions contain reference to record keeping, assessment, and reporting, which are no longer in RFETS TSRs.	The definition is taken directly from DOE Order 5480.22. No change required to document.	O
8	Jim Conti	Арр А	F	The B779 TSRs have appeared to shifted AC compliance below VIOLATIONS to section 1.4 safety basis compliance - DOE needs to decide	Management meeting provided technical direction to mandate a multi-level of managing deficiencies for the 779 Closure Project.	O

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100 100	Document Number	Title			Revision	
NST	NSTR-002-98	779 Clt	ster Decomm	779 Cluster Decommissioning Safety Analysis	0 Pa	Page 21
Š Ö	Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed D = Dispositioned
				whether to accept this.		
67	Jim Conti	Арр А	⊢	LCO 3.0.6 refers to individual program deficiencies to be handled in accordance with the control set, I think this fits with lesser deficiencies that used to be in the 5.0 section	Accept. LCO 3.0.6 will be modified to eliminate confusion.	O
89	Jim Conti	App A	F	LCO 3.1: I think the wording needs to be revised. 782/729 are not SCAs, but will be exhausted by the systems. At some point it will just be the ducts and the plenums, and the SCAs will be no longer exhausted.	See response to HLI 9	U
69	Jim Conti	Арр А	H	LCO 3.1.A the i.e. statement doesn't include activities outside SCAs.	See response to HL19.	O .
70	Jim Conti	Арр А	(LCO 3.1B does not take into account that it may be chosen to maintain rooms positive and control with rad tents. It is conservative.	Second CONDITION will be deleted. AC 5.3 will provide a control to prohibit storage of waste packages in plenum areas. SR 5.2.4.2 will be moved from the AC section to LCO 3.1. No CONDITION needs to be developed.	U
11	Jim Conti	Арр А	Τ	Applicability statement SR 4.1.2 doesn't account for if duct plenum work is on going.	See response to Comment #70. SR will be deleted.	O .
72	Jim Conti	Арр А	⊢	I am assuming with the requirement to do SR 4.2.1.4 that this includes the alarm function, and the related condition is the associated system NOT OPERABLE.	See response to Comment #15.	၁
73	Jim Conti	App A	⊢	DOE criticality needs to accept the new construct provided in the B779 TSRs for criticality alarm. I guess the new philosophy is that with the very low MAR if the criticality system is inoperable, it is acceptable to terminate handling instead of building evacuation.	Management meeting accepted the proposal to split the control.	၁
74	Jim Conti	App A	⊱	Also the new split takes the LSDW notification/beacons CONDITION and SR and moves them to an admin control. The tone signal	See response to Comment #73	၁

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NSTR	NSTR-002-98	779 Clu	ıster Decommi	Inte 779 Cluster Decommissioning Safety Analysis	Revision Pa	Page 22
Š.	Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0 = Open C = Closed
				generator test is part of the operability of the criticality alarm panel and should stay in the LCO. The loss of AC power to the criticality panel should include LSDW. The requirement to have no trouble alarm includes alarms that are no directly a part of operability of the criticality panel, but is consistent with 371 and conservative	A CONDITION will be added for loss of power. The corresponding REQUIRED ACTION will be to SUSPEND ACTIVITIES in AFFECTED AREAS.	D = Dispositioned
	Jim Conti	App A	[—	Criticality SMEs need to accept/reject control of LSDW annunciation and the specifically of alternate methods without specifying actual acceptable methods	See response to Comment #73.	U
	Jim Conti	Арр А	ò	What is the difference between SR 5.5.4. 2 and 4?	SR 5.5.4.2 verifies beacons activate when in alarm mode. SR 5.5.4.4 verify operability of at least one beacon per circuit	U
	Jim Conti	Арр А	Ę	5.1.1 AC organization and management: one ventilation building engineer should be available during ventilation system adjustments created by removal of ventilation components from service, to provide guidance and assistance.	A new position will not be defined in the minimum staffing AC.	U
78 J	Jim Conti	App A		5.2.2. under procedures: procedures will be maintained up to date and current with current configuration.	See response to Comment #15.	S
	Jun Conti	App A		5.2.3 revise to include ducts removed and first stage Zone II plenums removed remediated.	See response to HLI 1.	C
	Jim Conti	App A	> ⊢	FP-403 holdup? SR 5.2.4 There should be a SR to reverify balance after removal of components	There is NO HOLD-UP in FP-403. Accept. Surveillance requirement will be added to	υu
85	Jim Conti	Арр А		FP-403 exhausts the office areas and room 127. How is the filtration requirement going to be controlled for 127 if the room is chosen to go negative for confinement?	See response to HLI 9.	O

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Doc	Document Number	Title		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Boursian	
NS	NSTR-002-98	779 CIL	ıster Decomm	779 Cluster Decommissioning Safety Analysis	0	Page 23
Ž.	Reviewer	Section	Type	Comment/Onestion		
			I = Information Q = Question T = Technical		Disposition	Status 0 = Open C = Closed
	Jim Conti	App A	H	Page A-61: The 2 day exception for fire suppression was verbally told to me as the dock didn't have sprinklers. On tour I was told it all has	See response to HLI 10.	D = Dispositioned C
				sprinklers. If this exception is for the dock, then make it for the dock. If there is going to be a 2-day exception it conflicts with the LCO which requires specific actions in 4 hours.		
8	Jim Conti	App A	L	The control for 5 wooden crates: what is a location.	The word file coefe " " " " " " "	
				a room? Is this a reasonable minimum. How is five crates burning going to dilute so as to not knock out filtration?	(pg. 61, 5.3.3.4). Dilution control will be deleted.	U
<u>چ</u>	Jim Conti	App A	Ţ	100 LLW crates outside: see SJO comments	See reconnect to UI 15 and Constitution	
9	Jim Conti	App A	L	the solution in crate requirement Should it be more in line with site transportation requirements, since it	No change to document. AC 5.3 provides adequate controls.	ပ မ
87	Jim Conti	A nn A	1			
		v dáv	-	Criticatity AC: if we approve this new philosophy, I recommend the alternate means be specified, because the ANSI std only specifies visual, and DOE needs to buy off on the new alternate means	Sec response to HLI 11 and Comment #73.	U
×	Jim Conti	Арр А	F 0	SR 5.5.3 conflicts with alt means	See response to HLI 11 and Comment #73.	O
00					SR 5.5.3 will change the work "verify" to "testing."	
6		Арр А	⊢	Given the high level of construction/destruction	See response to Comment #15,	J
				provided says they are still checking perc) and the fact that serious injury could occur, IH&S should be elevated to AC.		
₹	Jim Conti	Арр А	ò	where is training fit into this process? Under IWCP which says trained individuals for work?	AC 5.8, Work Control, requires work to be	D D
<u>6</u>	Naomi Moon	9	Ò		MAR limits established by other program	O
					equilents (i.e., packing for snipment to WIPP)	

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₹		Little				
SN	NSTR-002-98	779 CII	uster Decomi	779 Cluster Decommissioning Safety Analysis	Revision 0	24
Š	. Reviewer	Section	Type		1 480	+7.
			I = Information Q ≈ Question	Comment/Question	Disposition	Status
			T = Technical			C = Closed
92	Naomi Moon	App A	C	Why is Committee and	although not driven from Crit requirements do provide a preventive function to ensure that Criticality Safety limits are not challenged	n = Uspositioned
			y	annunciation for the Criticality Alarm System an Administrative Control?	See response to Comment #73.	2
					the LS/DW system in two rooms. The project will be creating HIGH NOISE areas during the decommissioning process.	
		-			developed:	
					to ensure that the FUNCTION to notify workers was adequately provided given the	
					current deficiencies, and	,
					to ensure the FUNCTION was provided throughout decommissioning activities	
93	Naomi Moon	App A	0	3.3 Why is I CO on the criticality	0.	
2	Noom: W.		,	panel, not the Criticality Accident Alarm	See response to Comment #73	C
	Macini Moon	Арр А		3.3 Condition A. Condition should refer to operability of CAAS not just the page 1	See response to Comment #73 and Comment #92	Ü
3	Naomi Moon	App A	L	3.3 Condition A.	The CONDITION will not be modified The	, (
96	Naomi Moon	App A	E	A.1 should be for entire facility, not AREAS.	BASES section will clarify and link to the 5.B.02 analysis.	<u>.</u>
1				t is not clear why it would take as long as 2 hours to SUSPEND ACTIVITIES	Two hours is a reasonable time to provide safety suspension of activities. No change to document.	S
	Naomi Moon	Арр А	£	be for entire facility	Comment withdrawn.	U
86	Naomi Moon	App A	E	not just AFFECTED AREAS.		-
			-	y it would take as long as 2 hours	See response to Comment #96.	၁
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ਰੂ 	Document Number	Title	8		Revision	
NST	NSTR-002-98	779 Clt	ıster Decomm	779 Cluster Decommissioning Safety Analysis		Page 25
Š.	Reviewer	Section	Type	Comment/Question	Disposition	Status
			Q = Question T = Technical			O = Open C = Closed
66	Naomi Moon	App A	E	3.3 Condition D	See response to Comment #96.	U = Dispositioned
				It is not clear why it would take as long as 2 hours to SUSPEND ACTIVITIES.		
8	Naomi Moon	App A	1	3.3 Condition E	See response to Comment #95,	C
				Required Action E.1 should be for entire facility, not just AFFECTED AREAS.		>
<u> </u>	Naomi Moon	App A	F	3.3 Condition E	See response to Comment #96.	
				It is not clear why it would take as long as 2 hours to SUSPEND ACTIVITIES)
102	Naomi Moon	App A	L	p. A-45. The NCSM does NOT define aspects of	Confusing text will be deleted (3rd parameter	C
				the criticality accident alarm systems which are	second to the last sentence).	٠
				required to demonstrate system operability. These		
103	Naomi Moon	A A	F	are usually uolie in the SEKS		
3	I VACILII INIUUI	у dd у	_	p. A-45. The criticality detection system also	See response to Comment #93.	O
				defection to the electrical circuitry connecting the		
				detectors to the alarm panel and the supporting electrical power source	•	
104	Naomi Moon	App A	F	n A.40 Actions C 1 D 1 and E 1 Th. 1	500 1 0	
			•	states that "The safety analysis assumes that a	"Suspension of fiscionable material Leadings"	ပ
		·		criticality is possible during those portions of the	erependent in march march manualle.	
				closure process where fissionable material is being		
				handled". It is not clear how this statement supports		
105	Naomi Moon	A na A	Ę	the extended completion time to suspend activities.		
		c di	-	p. A-51, 5K 4.5.1. This Surveillance does not actually verify onerability of the entire accident	BASES will be clarified.	၁
,				alarm system. For example the SR doesn't require		
			•	activation of the beacons (although the procedure		
				currently does).		
901	Naomi Moon	App A	_	p. A-64, 5.5.1. The SSCs identified in this section	Accept. AC 5.5.1 and 5.9.2 will be revised as need	
				are inconsistent with those identified in Section 5.9.2 (for example 1.S/DW)	to be consistent. Changes will be made throughout)
107	Naomi Moon	App A	T	p. A-64, 5.5.2. This section should address the	Accent Exterior notification will be edded on the	,
				exterior beacons explicitly	Accept. Exterior normication will be added as a 4" element.	ပ

				Review Comment Record RFFO Cross Table		
ಕ್ಷ	Document Number	Title				
NS	NSTR-002-98	779 CI	luster Decomn	779 Cluster Decommissioning Safety Analysis	Revision 0	Page 26
Š.	Reviewer	Section	Tvne			27.09
			= Information Q = Question	Comment/Question	Disposition	Status O = Open
80	Naomi Moon	App A	- Lecomos	0 A-64 S S 2		C = Closed D = Dispositioned
		:	·		See response to HLI 11. Procedures will be developed as part of implementation.	O
601	Naomi Moon	App A	₽	D. A-64, 5.5.4. What hannened to Section 5 5 22		
					Accept. AC 5.5 will be renumbered to correct the	O
2	Naomi Moon	App A	L	p. A-64, 5.5.4. The first paragraph should note that	lypo.	
				these surveillance requirements also apply to	Accept. Will add "and LS/DW audibility."	၁
П	Steve Smith	3	E	Po 47 Clarify last contains in 4th		
			•	Should read Zone I and Zone II	Accept.	C
71	Tom Denny	2	T	Pg. 16. Clarify what an RCA is	E	
5					Accept. 1 erminology will be modified to be	C
<u> </u>	Iom Denny	m	Т	Pg. 37. What is #2. Clarify between rad and non-	A court Will 213	
=	Tom			rad.	highlight proximity	၁
<u>+</u>	Tom Denny	m	Į.	Pg. 55. Section 3.5.3.14.7. Description of "low"	Intent of this cost :	
				waste generation volume unclear "un to 6	uncte that will be	၁
				inches."	waste This activity does not meetine facility is	
					amount of "new waste". No change will be mode	
115	Tom Denny	Ann A	Ů.	D. 1 (2 pp. 1	to the document.	
		-	-	Pg. A-53. There is no standard definition for	Accept. Appendix A will be modified.	
				DISCOVERY USQ.	DISCOVERY USQ will go away as a standard)
116	Tom Denny	3	T	Pa 16 Closife (c.	definition (i.e., will be changed to lower case).	
117	Mary Regan	2	·	Pa 13 Clarify of overload,"	Accept. Confusing text will be deleted.	3
_			•	ser 13. Claimy une senience on floor sweepings.	GB floor sweepings contain less than 300 grams.	,
					The 779 safety analysis bounds the hazard.)
-+					Currently waiting on the results of the criticality	
<u>~</u>	Shirley Olinger	9	L	Need a discussion and reference to the chamical	evaluation prior to removal from the facility.	
-				consequence calcs. (see Section 5.2.1.2, 5.2.3, 5.2.3	No chemical consequence calculations was	၁
				and 5.3.8 of B371/374 BIO). Should be crediting	No discussion or reference will be answided	
1				Emergency Response for workers.	יייי כל די כי ווייי בי הייי בי הייי בי הייי בי הייי בי היייי בי היייי בי היייי בי היייי בי הייייי בי הייייי בי	

				Review Comment Record		
ဝိ	Document Number	Title		N TO CIOSS TABLE		
SZ	NSTR-002-98	779 CI	uster Decomn	779 Cluster Decommissioning Safety Analysis	Revision Dag	Page 27
No.	. Reviewer	Section	Type = Information Q = Question T = Technical	Comment/Question	Disposition	Status 0=0pen
61	Shirley Olinger	9	E		See response to Comment #15 for EP controls	D = Dispositioned
		.	_	rienum Deluge should be in the TSRs so need medium fires. Need alarm capability and def in depth for filter spray.	Plenum deluge is credited and analyzed in the 779 safety analysis as a defense-in-depth SSC. No new fire scenarios will be developed. Will elevate the	O
					prending delige (SC-3 system) to TSR control set and develop a LCO. Operability will not be defined by the Site EOE.	
120	Shirley Olinger	9	—	Why can't we mitigate the TRU waste container	See response to Comment #15 for flow alarms. We have mitigated both scenarios as much as	S
121	Shirley Olinger	General	0	a dock fire? (470 rem/79 rem) Will be decon plenums that are bigh hos	practical. No change required to document.	
			,	Where is the control on HEPA filters being removed before cutting.?	Plenums will be decontaminated as much as possible prior to cutting. Fixative will be applied if needed. Adequate controls are identified in the	O
123	Shirley Olinger	9	⊱	Look at add'I controls to further reduce the oxyac plenum accidents to below RC II for CLW. Such things as reducing MAR, no combustibles or storage while cutting	AC 5.6, Fire Protection, identifies control for managing combustibles throughout the 779 Cluster. Specific controls are identified for the culting of plenning. No editional and accounting of plenning.	S
123	Shirley Olinger	9	F	Why shouldn't we credit fire suppression and HEPA filtration for LLW crate fires? This idea of fires not large enough or too big seems like a ploy to eliminate controls.	required to analysis or document. Dock scenario will be modified to credit fire scenarios	S
124	Shirley Olinger	9	F		Dock scenario being revised to credit fire suppression. No other changes required to analysis. Controls will be based on dock scenario for storing/staging inside and outside 779 proper	J
				outside it is 2 crates and no restrictions, you can go up to 100 lofted. What is the answer if you use 5		

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				Revi		
ğ	Document Number			N TO CIOSS TABLE		
SS	NSTR-002-98	779 CI	luster Decomn	779 Cluster Decommissioning Safety Analysis	Revision 0	
o Z	Reviewer	Section	Type	Character of the state of the s		rage 28
			= Information Q = Question T = Technical	Comments Cuestion	Disposition	Status O=Open
135				crates outside nonlofted?		D = Dispositioned
7	ouncy Ounger	•	-	There is a statement that the waste crate MAR values will probably be 6 times lower. Is this true when we DD&D. Seems we will want to go up to	Yes. Statement reflects actual expectations. No change required to document.	J
126	Shirley Olinger	9	[-	How is the fact that we are in noncompliance with HSP 11.03 affect the spill scenarios/	AB support team discussed with reviewer. No impact to spill scenarios. No change required to	Ĵ
127	Shirley Olinger	9		Mines and the	document,	
				where are the controls on fire retardant paint, only allowing 4 size reduction areas, fire watch during hot work, 12 rad issue controls.	AC 5.6, Fire Protection, contains the requirements for control of combustibles (i.e., wood must be coated with fire retardant paint), and fire watches to be established during hot work. Procedures present to RFFO for verification during cross table.	U
					Analysis assumption (initial condition) for four size reduction areas will be address via Comment # 63.	
					12 rad issue is being resolved separate from the 779 safety analysis. IP process will verify the site wide compensatory measure is in the Emergency	
128	Shirley Olinger	9		What is the criteria to determine which assumptions	Response procedure.	
				require controls. The following assumptions implies some type of control is in place to take credit for the assumption:	Requirements and associated DOE Standards were used to select controls.	O
129	Shirley Olinger			 no more that 4 size reduction areas permitted. multiple room ducting inventories are not evaluated (have fire doors.) 	Comment #63 addresses RFFO's expectations that all assumptions be identified in the TSR set.	
	pagnio farms	0	-	individual component fires will not propagate to other components or rooms in the facility. (have G/B fire doors?)	AC 5.6, Fire Protection, contains the control to ensure the accident analysis assumption is maintained. No additional controls required in	U
					document.	

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Section Type Table Type	oning Safety Analysis	Revision	
Reviewer Section Type I = Information Q = Question T = Technical Shirley Olinger 6 T Shirley Olinger 6 T Shirley Olinger 6 T Shirley Olinger App A T T T T T T T T T		_	
Shirley Olinger Section Type Shirley Olinger 6 Shirley Olinger 6 Shirley Olinger 6 Shirley Olinger App A Shirley Olinger App A T Shirley Olinger App A T T T T T T T T T T T T T		0 	Page 29
Shirley Olinger 6 T Shirley Olinger 6 T Shirley Olinger App A T Shirley Olinger App A T Shirley Olinger App A T	Comment/Question	Disposition	Status 0 = Open C = Closed
Shirley Olinger 6 T Shirley Olinger App A T Shirley Olinger App A T Shirley Olinger App A T	e impact if sealed sources and C0-60 tot controlled adequately (eg 700 curies	Control of Cobalt source will be added to a "specific control" section in one of the ACs as appropriate.	
Shirley Olinger 6 T Shirley Olinger App A T Shirley Olinger App A T	nderstand bases for following assumption; of mat'l in a metal waste container is by hydrogen (also show numbers for mption).	AB support team provided the bases verbally in cross table. No change to document required.	U
Shirley Olinger App A T Shirley Olinger App A T	state wrt combustible package bldg to ensure that fires don't re multiple components.	Current FHA is based on walk-down a year ago. Limitation noted in FHA. New FHA in progress and is not due out until April. 779 Closure project is paying for a separate analysis to assist in the implementing Combustible program mandated by the Control Set.	Ç
Shirley Olinger App A T	Beef-up the Combustible Control/Ignition Source ACR. Use B371 BIO where applicable. Segregate where can store combustibles from size reduction areas and plenum cutting areas. Include fire watch requt during oxyac cutting.	AC 5.6, Fire Protection, identifies adequate controls for hot work, fire watch and spacing requirements in size reduction rooms. Will verify that control of ignition sources is properly incorporated by reference.	U
Summey Omnger App A	quipment in ACR.	See response to HLI 8.	O (
Shirley Olinoer Ann A		See response to comment #49.	O .
Approximent of the control of the co	improved to include some of the more significant assumptions in the analysis. For example, removing a HEPAs before cutting, 4 size reduction areas, hydrogen venting controls identified in B371 B1O, not allowing 2 days w/o suppression or filtration for TRU (only if on dock and then only filtration, oxyac volume limits, etc.	Accident analysis assumptions will be included in the "specific controls" section of an AC is applicable. See other numerous comments identifying similar concerns and corresponding dispositions.	ပ
137 Shirley Olinger App A T Shouldn't we hear the LSD to have a pro	Shouldn't we define the alternate means if can't hear the LSDW in TSR since we know we are going to have a problem?	See response to HLI 11.	O .

				Review Comment Record		
	es.		: 1	RFFO Cross Table		
Docui	Document Number	Title			Revision	
NST	NSTR-002-98	779 CI _I	uster Decomm	779 Cluster Decommissioning Safety Analysis		Page 30
No.	Reviewer	Section	Type = Information Q = Question	Comment/Question	Disposition	Status 0 = Open C = Closed
138	Shirley Olinger	АррА	T T	How is the fire suppression system effective when you have a radcon ten installed around the G/B, plenum, ducting, etc. For example around the whole G/B unit (e.g., Rm 133) and the effectiveness	Effectiveness of fire suppression system discussed. Control set adequate to control hazards. No change required to document.	٥
	Shirley Olinger	A pp A	[of the fire suppression system? Need in the AC 5.3 controls for the hydrogen venting/purging (see B371 5.2a and f)	AC will identify accident analysis assumption in "specific control" section.	U
94	Sniriey Olinger	App B	⊘	Comments 48 through 59 distributed in cross table focused on Appendix B, 779 Cluster Decommissioning Safety Analysis. See Review Comment Record Project file for original set of comments/questions on Appendix B. Those comments documenting which are repetitive are cross referenced to the duplicative comment and disposition on the hard copy. Each comment/question was discussed with the originator to her satisfaction. Agree to changes in the analysis are provided in the disposition.	No detailed response provided. See Review Comment Record (NSTR-dmb-008) for project record. Accident analysis will be revised to reflect the directed controls to provide a more realistic representation of the risk. • fire scenarios and spills will be revised to reflect the change in fixatives, • fire suppression will be credited on the dock • fire suppression and filtration will be credited if available throughout the analysis if available, Control Set will contain accident analysis assumptions in the "specific controls" section. Linking will be provided in section 6.7.	J

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